### (WO/2005/091049) THREE-DIMENSIONAL IMAGE DISPLAY UNIT

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Applicants:

SANYO ELECTRIC CO., LTD. [JP/JP]; 5-5, Keihan-Hondori 2-chome, Moriguchi-shi, Osaka, 5708677

(JP) (All Except US).

TOTTORI SANYO ELECTRIC CO., LTD. [JP/JP]; 7-101, Tachikawa-cho, Tottori-shi, Tottori, 6808634

(JP) (All Except US).

ARAMATSU, Yoshiaki [JP/JP]; c/o SANYO EPSON IMAGING DEVICES CORPORATION, 3-101,

Minamiyoshikata, Tottori-shi, Tottori 6808577 (JP) (US Only).

Inventor:

ARAMATSU, Yoshiaki (JP/JP); c/o SANYO EPSON IMAGING DEVICES CORPORATION, 3-101,

Minamiyoshikata, Tottori-shi, Tottori 6808577 (JP).

Agent:

WIN TECH PATENT OFFICE; 4th Fl., Wenping Kanda BLDG., 6-7, Kanda Kajicho 3-chome, Chiyoda-

ku, Tokyo 1010045 (JP).

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Title:

THREE-DIMENSIONAL IMAGE DISPLAY UNIT

Abstract:

A three-dimensional image display unit (10) comprising a liquid crystal parallax barrier (24) provided on the surface of an image display unit (16) such as a transmitting liquid crystal display unit across a transparent plate (20), wherein a shielding member (29) such as a black mask for shielding the outgoing light of a light incident from the side surface of the transparent plate (20) is provided in the vicinity of the boundary of the effective display area of the parallax barrier (24). The shielding member (29) may be provided inside or outside the parallax barrier (24). Such a construction can prevent blur forming in the vicinity of the boundary of the effective display area or a deterioration in display quality such as insufficient black displaying at a part that should be

black-displayed, thereby providing a threedimensional image display unit giving a good display

quality in the vicinity of the boundary of the effective display area even if it is enlarged in size.

States:

Designated AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW. African Regional Intellectual Property Org. (ARIPO) (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW)

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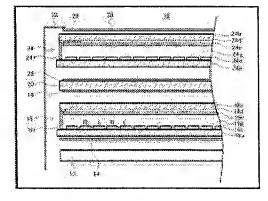
European Patent Office (EPO) (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,

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(71) 出願人(米国を除く全ての指定国について): 三洋電 機株式会社 (SANYO ELECTRIC CO., LTD.) [JP/JP]: 〒5708677 大阪府守口市京阪本通2丁目5番5号

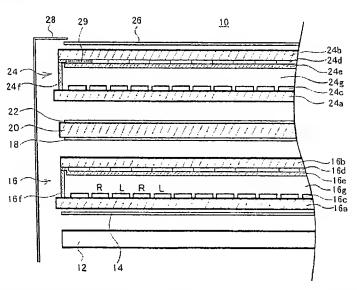
Osaka (JP). 鳥取三洋電機株式会社 (TOTTORI SANYO ELECTRIC CO., LTD.) [JP/JP]; 〒6808634 鳥取県鳥取 市立川町七丁目101番地 Tottori (JP).

- (72) 発明者; および
- (75) 発明者/出願人(米国についてのみ): 荒松 義明(ARA-MATSU, Yoshiaki) [JP/JP], 〒6808577 鳥取県鳥取市南 吉方3丁目101番地三洋エプソンイメージングデ バイス株式会社内 Tottori (JP).
- (74) 代理人: 特許業務法人 ウィンテック (WIN TECH PATENT OFFICE); 〒1010045 東京都千代田区神田 鍛冶町三丁目6番7号ウンピン神田ビル4階 Tokyo (JP).
- (81) 指定国(表示のない限り、全ての種類の国内保護が 可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR,

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(54) Title: THREE-DIMENSIONAL IMAGE DISPLAY UNIT

(54) 発明の名称: 立体映像表示装置



(57) Abstract: A three-dimensional image display unit (10) comprising a liquid crystal parallax barrier (24) provided on the surface of an image display unit (16) such as a transmitting liquid crystal display unit across a transparent plate (20), wherein a shielding member (29) such as a black mask for shielding the outgoing light of a light incident from the side surface of the transparent plate (20) is provided in the vicinity of the boundary of the effective display area of the parallax barrier (24). The shielding member (29) may be provided inside or outside the parallax barrier (24). Such a construction can prevent blur forming in the vicinity of the boundary of the effective display area or a deterioration in display quality such as insufficient black displaying at a part that should be black-displayed, thereby providing a three-dimensional image display unit giving a good display quality in the vicinity of the boundary of the effective display area even if it is enlarged in size.

透過型液晶表示装置等の画像表示装置16の表面に透明板20を挟んで液晶パララックスパリア24を 備えた立体映像表示装置10において、前記液晶パララックスパリア24の有効表示領域の境界部近傍に

BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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